



Frederik J Simons

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- POSITIONS**
- 2017–present *Professor of Geosciences;*
 - 2013–2017 *Associate Professor of Geosciences, with tenure;*
 - 2006–2013 *Assistant Professor of Geosciences, Princeton University;*

 - 2016–2020 *Executive Committee Member, Program in Archaeology;*
 - 2012–present *Associated Faculty, Program in Applied & Computational Mathematics;*
 - 2010–2013 *Dusenbury Preceptor of Geological and Geophysical Sciences, Princeton U.*

 - 2010–2017 *Visiting Fellow, KU Leuven (Earth & Environmental Sciences);*
 - 2014–2015 *Visitor, Institute for Advanced Study (Astrophysics & Cosmology);*
 - 2013 *Visitor, U. Cambridge (Bullard Laboratories);*
 - 2012 *Visitor, U. L. Bruxelles (Applied Mathematics);*
 - 2011 *Visiting Fellow, University College London (Statistical Science);*
 - 2010 *Visitor, V. U. Brussel (Mathematics);*
 - 2009 *Visiting Professor, Institut de Physique du Globe de Paris (Planetary Science);*
 - 2008 *Visiting Professor, Eidgenössische Technische Hochschule Zürich (Geophysics).*

 - 2004–2007 *Lecturer of Geophysics, University College London (UCL).*

 - 2002–2004 *Beck Postdoctoral Teaching Fellow, Council on Science & Technology;*
Hess Postdoctoral Fellow, Geosciences Department, Princeton University.

 - 2002 *Postdoctoral Research Associate;*
 - 1996–2002 *Research & Teaching Assistant, Earth, Atmospheric & Planetary Sciences, Massachusetts Institute of Technology (MIT).*

DEGREES

 - 1996–2002 *Massachusetts Institute of Technology, Cambridge, MA;*
Doctor of Philosophy with thesis in Geophysics.

 - 1992–1996 *Katholieke Universiteit Leuven, Belgium;*
Kandidaat & Licentiaat with thesis in Geology;
Grootste onderscheiding (summa cum laude).

 - 1980–1992 *Onze-Lieve-Vrouwecollege Jesuit School, Antwerpen, Belgium;*
Humaniora, Latin & Greek. Primus perpetuus.

RESEARCH I am a geologically inspired, geophysically educated, computationally motivated and mathematically minded *geoscientist* interested in the seismic, mechanical, thermal and magnetic properties of the Earth's lithosphere — and of the terrestrial planets and moons. I enjoy analyzing complex, large, and heterogeneous geophysical data sets, and design theoretical and computational inverse methods and statistical techniques to be able to do so — especially for partially observed processes modeled on a sphere. No amount of sophistication can cure a fundamental data limitation: I am developing floating hydrophones to open up the sparsely instrumented oceanic domains for global tomography.

